Subject: Re: IOTA/FAST experimental proposals
From: Alexey V Burov <burov@fnal.gov>
Date: 9/12/19, 19:10
To: Giulio Stancari <stancari@fnal.gov>

Hi Giulio,

I am still on vacation now, and not sure that will be able to write a formal proposal in time since soon I am going to a conference, so let me do it informally.

I think it will be very interesting to measure the stability diagram in the same way as Sergei Antipov did in the LHC. Namely, for a given octupole strength, to measure the threshold gain of the antidamper as a function of its phase. Then, the measurement can be repeated for higher or lower octupole strength, to make sure there is the expected scaling. These data can be compared with the calculation for transversely Gaussian bunch, to see how Gaussian the distribution really is. The last step Antipov did not do yet, I suppose.

Ciao, Alexey.

On 9/12/19 18:56, Giulio Stancari wrote:

> Dear Collaborators,
>
> we are inviting experimental proposals for the upcoming runs of IOTA/FAST at Fermilab: Run 2 (Sep-Nov 2019) and Run 3 (Jan-Mar 2020).
>
> All collaborators requesting beam time must submit a proposal for review. Proposals may be preceded by an optional letter of intent.
>
> Detailed information on the experimental program and on the submission process can be found on the web page of the IOTA/FAST Scientific Committee:
>
> https://cdcvs.fnal.gov/redmine/projects/ifsc/wiki
>
> On the web page, you can also find a list of experiments that are expected to request beam, based upon preliminary discussions, letters of intent or draft proposals.
>
> For your reference, the main IOTA/FAST web page contains general information on the machines and on the facility:
>
> https://fast.fnal.gov
>
> Recent discussions of commissioning and experiments were presented at the June 2019 IOTA/FAST Collaboration Meeting:
>
> https://indico.fnal.gov/event/20279
>
> We are looking forward to an exciting and vibrant scientific program!
>
> Please submit your proposals as soon as possible and do not hesitate to

contact us if there are any questions.

Best regards,

The IOTA/FAST Scientific Committee

Giulio Stancari (chair)
Dan Broemmelsiek
Alexander Valishev